

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

1. (Currently Amended) An aqueous urethane polyol, which satisfies all the following requirements:

1) comprising a hydroxyl group, a urethane group and a hydrophilic group in a molecule, ~~wherein:~~

2) having an average number of hydroxyl groups ~~is~~ of 3 to 20;

3) having a hydroxyl value ~~is~~ of 10 to 200 (mg KOH/g);

4) having an equivalent ratio of (urethane group) / (hydroxyl group + hydrophilic group) ~~is 1 to 2~~ of 1 to 2; and

5) having a number average molecular weight ~~is~~ of 1,000 to 20,000,

wherein said aqueous urethane polyol is produced by reacting:

(a) a polyisocyanate derived from at least an aliphatic and/or an alicyclic diisocyanate, having:

an average number of isocyanate groups of 3 to 20;

a concentration of isocyanate group of 3 to 25% by weight;

a concentration of diisocyanate monomer of 3% by weight or less; and

a number average molecular weight of 600 to 19,000;

(b) a polyol; and

(c) a compound comprising an active hydrogen group and a hydrophilic group in a single molecule; at an equivalent ratio of (hydroxyl group of (b) + active hydrogen group of (c)) / (isocyanate group of (a)) > 1.

2. (Currently Amended) The aqueous urethane polyol in accordance with claim 1, wherein the number average number of hydroxyl groups is 6 to 20 molecular weight of the polyisocyanate is 900 to 19,000.

3. (Currently Amended) ~~A method for producing the~~ The aqueous urethane polyol in accordance with claim 1, ~~comprising reacting:~~

- ~~—— (a) a polyisocyanate derived from at least an aliphatic and/or an alicyclic diisocyanate, having:~~
- ~~—— an average number of isocyanate groups of 3 to 20;~~
- ~~—— a concentration of isocyanate group of 3 to 25% by weight;~~
- ~~—— a concentration of diisocyanate monomer of 3% by weight or less; and~~
- ~~—— a number average molecular weight of 600 to 19,000;~~
- ~~—— (b) a polyol; and~~
- ~~—— (c) a compound comprising an active hydrogen group and a hydrophilic group in a single molecule;~~

~~at an equivalent ratio of (hydroxyl group of (b) + active hydrogen group of (c)) / (isocyanate group of (a)) > 1~~ wherein the number of

isocyanate groups of the polyisocyanate is 6 to 20.

4. (Currently Amended) The ~~production method~~ aqueous urethane polyol in accordance with ~~claim 3~~ claim 1, wherein the ~~number average molecular weight of the polyisocyanate is 900 to 19,000~~ polyisocyanate is derived from an aliphatic and/or an alicyclic diisocyanate and polyol.

5. (Currently Amended) The ~~production method~~ An aqueous coating composition, comprising the aqueous urethane polyol in accordance with ~~claim 3~~ claim 1, wherein the ~~average number of isocyanate groups of the polyisocyanate is 6 to 20.~~

6. (Currently Amended) The ~~production method~~ aqueous coating composition in accordance with ~~claim 3~~ claim 5, wherein the ~~polyisocyanate is derived from an aliphatic and/or an alicyclic diisocyanate and polyol~~ which is for an aqueous coating as primer for automobiles.

7-8. (Canceled).

9. (Previously Presented) A method for applying a primer to an automobile, comprising coating said automobile with the aqueous urethane polyol in accordance with claim 1.

10. (Currently Amended) The ~~production method~~ aqueous urethane polyol in accordance with ~~elaim—4~~ claim 2, wherein the polyisocyanate is derived from an aliphatic and/or an alicyclic diisocyanate and polyol.

11. (Currently Amended) The ~~production method~~ aqueous urethane polyol in accordance with ~~elaim—5~~ claim 3, wherein the polyisocyanate is derived from an aliphatic and/or an alicyclic diisocyanate and polyol.

12. (Currently Amended) An aqueous coating composition, comprising the aqueous urethane polyol in accordance with ~~elaim—2~~ claim 3.

13. (Previously Presented) The aqueous coating composition in accordance with claim 12, which is for an aqueous coating as primer for automobiles.

14. (Currently Amended) A method for applying a primer to an automobile, comprising coating said automobile with the aqueous urethane polyol in accordance with ~~elaim—2~~ claim 3.

15. (New) A method for producing an aqueous urethane polyol, said aqueous urethane polyol comprising a hydroxyl group, a urethane group and a hydrophilic group in a molecule, wherein:

- an average number of hydroxyl groups is 3 to 20;
- a hydroxyl value is 10 to 200 (mg KOH/g);
- an equivalent ratio of (urethane group) / (hydroxyl group + hydrophilic group) is 1 to 2; and
- a number average molecular weight is 1,000 to 20,000, and

said method comprising reacting:

- (a) a polyisocyanate derived from at least an aliphatic and/or an alicyclic diisocyanate, having:
  - an average number of isocyanate groups of 3 to 20;
  - a concentration of isocyanate group of 3 to 25% by weight;
  - a concentration of diisocyanate monomer of 3% by weight or less; and
  - a number average molecular weight of 600 to 19,000;
- (b) a polyol; and
- (c) a compound comprising an active hydrogen group and a hydrophilic group in a single molecule;

at an equivalent ratio of (hydroxyl group of (b) + active hydrogen group of (c)) / (isocyanate group of (a)) > 1.

16. (New) The production method in accordance with claim 15, wherein the number average molecular weight of the polyisocyanate is 900 to 19,000.

17. (New) The production method in accordance with claim 15, wherein the average number of isocyanate groups of the polyisocyanate is 6 to 20.

18. (New) The production method in accordance with claim 15, wherein the polyisocyanate is derived from an aliphatic and/or an alicyclic diisocyanate and polyol.